INTERMATIONAL SEARCH REPORT

PCT/EP 03/10564

	A. CLASSIFICATION OF SUBJECT IPC 7 C07K14/47 C12N5/00 C12Q1/68	MATTER C07K19/00 A01K67/027 A61K38/17	C12N15/12 C07K16/18 A61K39/00	C12N15/62 G01N33/68 A61K48/00	C12N15/63 G01N33/53 A61P35/00
ļ	According to International Patent Clas	sification (IPC) or to both	nátional classification an	d IPC	

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7K C12N A01K G01N C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, BIOSIS, WPI Data

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/75067 A (HYSEQ INC; LIU CHENGHUA (US); TANG Y TOM (US); DRMANAC RODOJE T (U) 11 October 2001 (2001-10-11) the entire document, particularly SEQ ID NOS:77 and 30445, pages 1-6,24-37,45,53,55-62,74-84,87-94 and the claims & DATABASE EBI [Online] Human diagnostic protein #77 13 February 2002 (2002-02-13), DRMANAC RT ET AL.: "New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identifications of mutations responsible for genetic disorders or other traits and to assess biodiversity" Database accession no. ABG00086 abstract -/	1-65

X Patent family members are listed in annex.
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to be involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same petent family
Date of mailing of the international search report
0 9 JUL 2004
Authorized officer Schmidt, Harald

Form PCT/ISA/210 (second sheel) (January 2004)



Internation Sphication No PCT/EP 03/10564

		PCI/EP 0	3/10304
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	& DATABASE EBI [Online] DNA encoding novel human diagnostic protein #77 13 February 2002 (2002-02-13), DRMANAC RT ET AL.: "New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identifications of mutations responsible for genetic disorders or other traits and to assess biodiversity" Database accession no. AAS64273 abstract		
A	US 6 410 724 B1 (DEJEAN ANNE ET AL) 25 June 2002 (2002-06-25) the whole document		
A	XU X-R ET AL: "Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 98, no. 26, 18 December 2001 (2001-12-18), pages 15089-15094, XP002231180 ISSN: 0027-8424 the whole document		
A	WO 02/059611 A (TULARIK INC) 1 August 2002 (2002-08-01) the whole document		
		į	

Form PCT/ISA/210 (continuation of second sheet) (January 2004)



International application No. PCT/EP 03/10564

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)	_
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: See FURTHER INFORMATION sheet PCT/ISA/210	
2. X Claims Nos.: 1-65 (all partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210	
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	_
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5, 8, 11-18 completely and 6, 7, 9, 10, 19-65 partially	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

International Application No. PCT/ EP 03/10564

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 24 to 26 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 27 to 33 and 60 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 1-65 (all partially)

The scope of claims 1 to 65, in as far as the expressions "functional variant", "variant", "non-functional mutant variant" or "fragment" are concerned, is so unclear within the meaning of Article 6 PCT that a meaningful International Search is impossible with regard to these expressions.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5.8,11-18 (completely) and 6,7,9,10,19-65 (partially)

polypeptide and fusion proteins comprising a sequence according to SEQ ID NO:2, nucleic acids encoding said polypeptide, their vectors, cells, transgenic non-human mammals, antibodies, diagnostics, compositions and their methods

1.1. claims: 1,2 (completely) and 19,22-27,31-33,47-60 (all partially)

polypeptide and fusion proteins comprising a sequence according to SEQ ID NO:2 and its methods for diagnosis, prevention and treatment

1.2. claims: 61-65 (partially)

method of identifying a pharmacologically active compound wherein a polypeptide according to SEQ ID NO:2 is provided

1.3. claims: 3-5 (completely) and 6-11,13-46,60 (partially)

nucleic acid encoding a polypeptide comprising SEQ ID NO:2, vectors, cells and transgenic non-human mammal, and its use in the diagnosis, prevention and treatment of a liver disorder or a epithelial cancer

1.4. claims: 12 (completely) and 19,22-27,31,32 (partially)

antibodies against a polypeptide comprising SEQ ID NO:2 and their use in a method for prevention, treatment and diagnosis

2. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:1, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:1, their antibodies, nucleic acids, vectors and cells

3. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:3, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:3, their antibodies, nucleic acids, vectors and cells

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

4. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:4, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:4, their antibodies, nucleic acids, vectors and cells

5. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:5, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:5, their antibodies, nucleic acids, vectors and cells

6. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:6, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:6, their antibodies, nucleic acids, vectors and cells

7. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:7, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:7, their antibodies, nucleic acids, vectors and cells

8. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:8, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:8, their antibodies, nucleic acids, vectors and cells

9. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:9, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:9, their antibodies, nucleic acids, vectors and cells

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

10. claims: 6,7,9,10,19-65 (all partially)

vectors comprising a nucleic acid encoding a polypeptide according to SEQ ID NO:47, their cells, transgenic non-human mammals, diagnostics, compositions and methods comprising polypeptides according to SEQ ID NO:47, their antibodies, nucleic acids, vectors and cells

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INTERMITIONAL SEARCH REPORT

Information on patent family members

Internation Depilication No
PCT/EP 03/10564

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 0175067 A	11-10-2001	AU AU AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	3486501 A 3995501 A 4925101 A 4972801 A 5119401 A 55119401 A 2399681 A1 2404501 A1 2404555 A1 1254266 A1 1268762 A1 1268510 A2 2004502403 T 2004500120 T 0157266 A1 0164839 A2 0175067 A2 0175064 A2 0174836 A1 0175093 A1 2004048249 A1 2003097370 A1 2003087370 A1 2003087370 A1 2003087370 A1 2003087370 A1 2003087370 A1 2003180722 A1 2003180722 A1 2003180722 A1	14-08-2001 12-09-2001 15-10-2001 15-10-2001 15-10-2001 15-10-2001 15-10-2001 11-10-2001 11-10-2001 06-11-2002 02-01-2003 02-01-2004 08-01-2004 09-08-2001 07-09-2001 11-10-2001 11-10-2001 11-10-2001 11-10-2001 11-0-2001 11-0-2001 20-08-2003 20-08-2003 22-05-2003 22-05-2003 20-08-2002 25-09-2003 10-10-2002
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